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OM protein - protein search, using sw model

Run on: July 31, 2003, 13:31:02 ; Search time 30 seconds  
(without alignments)  
741.850 Million cell updates/sec

Title: US-10-082-894-2

Perfect score: 2786

Sequence: 1 MDKRYNQVKVCLVWIDGWG.....LMGLVPPEMDGVPLLEQRG 526

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*

2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*

3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*

4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*

5: /cgn2\_6/ptodata/1/iaa/PCFUS\_COMB.pep.\*

6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1092.5	39.2	529	4	US-09-252-991A-23395
2	998.5	35.8	521	4	US-09-328-352-5423
3	992	35.6	517	4	US-09-134-001C-5444
4	333	12.0	161	3	US-08-975-762-35
5	333	12.0	161	3	US-08-821-324-35
6	333	12.0	161	3	US-09-295-028-35
7	333	12.0	161	3	US-09-106-582-35
8	110.5	4.0	820	4	US-09-232-991A-32001
9	110	3.9	709	4	US-09-668-673B-3
10	108	3.9	556	1	US-08-445-586-2
11	101	3.6	554	1	US-08-445-586-7
12	100	3.6	920	3	US-08-930-996A-8
13	98	3.5	376	4	US-09-252-991A-28031
14	95	3.4	449	2	US-08-657-392-2
15	95	3.4	449	5	PCT-US94-02539-2
16	95	3.4	471	2	US-08-657-392-31
17	95	3.4	471	5	PCT-US94-02539-31
18	95	3.4	2662	4	US-09-595-684B-31
19	94.5	3.4	573	4	US-09-134-001C-4656
20	92	3.3	437	4	US-09-252-991A-24355
21	92	3.3	459	2	US-08-673-312-2
22	92	3.3	720	4	US-09-252-991A-18618
23	91	3.3	571	3	US-08-809-326A-6
24	91	3.3	571	4	US-09-689-914A-6
25	91	3.3	571	4	US-09-689-913A-6
26	91	3.3	571	4	US-09-689-916A-6
27	91	3.3	580	4	US-09-198-452A-332

28	90.5	3.2	631	4	US-09-134-001C-3843	Sequence 3843, Ap
29	90.5	3.2	846	4	US-09-252-991A-23780	Sequence 23780, A
30	90.5	3.2	888	4	US-09-252-991A-17967	Sequence 17967, A
31	90.5	3.2	891	4	US-09-134-001C-4913	Sequence 4913, Ap
32	90	3.2	711	1	US-08-235-838-7	Sequence 7, Appl
33	90	3.2	711	2	US-08-465-473B-7	Sequence 7, Appl
34	89.5	3.2	710	4	US-09-107-532A-5067	Sequence 5067, A
35	89	3.2	427	4	US-09-252-991A-19612	Sequence 19612, A
36	88.5	3.2	1375	3	US-08-665-259-26	Sequence 26, Appl
37	88.5	3.2	1375	3	US-08-762-500-26	Sequence 26, Appl
38	87.5	3.1	320	3	US-09-347-803-23	Sequence 23, Appl
39	87.5	3.1	505	3	US-08-627-907A-4	Sequence 4, Appl
40	86.5	3.1	389	1	US-08-650-275-3	Sequence 3, Appl
41	86.5	3.1	389	3	US-09-181-318-3	Sequence 3, Appl
42	86.5	3.1	406	4	US-09-227-357-187	Sequence 187, App
43	86	3.1	509	2	US-08-559-505-4	Sequence 4, Appl
44	86	3.1	509	2	US-08-749-907-4	Sequence 4, Appl
45	86	3.1	509	4	US-09-241-581B-8	Sequence 8, Appl

#### ALIGNMENTS

RESULT 1

US-09-252-991A-23395

; Sequence 23395, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,786

; PRIOR FILING DATE: 1998-02-18

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 23395

; LENGTH: 529

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

; US-09-252-991A-23395

Query Match 39.2%; Score 1092.5; DB 4; Length 529;  
Best Local Similarity 45.2%; Pred. No. 5.6e-113;  
Matches 233; Conservative 78; Mismatches 179; Indels 25; Gaps 9;

Qy	13	LVVIDGWLSDQHGNAIAKAKTPTMDKLCSGNQKL-EAHGLHVGLPEGLMGNSEVGH	71
Db	24	LIILDGFHSESPDYNAIYAAKKPWDRLLATQPHGLISGSDMDVGLPDGOMGNSEVGH	83
Qy	72	NIGAGRVYQDIVRINLAQVNEFTNPQIVASAEKKGSRHLHLLGLVSDGGVSHID	131
Db	84	NLGAGRVYQDFTVTRKAIKRDGEFFENPVIAAADVAAADKAVAHILGLSPGVSHSD	143
Qy	132	HLFALIRAFKOLQVPKVFIFHFADGROTSPTSGAGYLEQLLOFTASEKYGLATITG	191
Db	144	HLVAMAQAAKRGAGKIYHLHAFDGRDTPPKSAQPSLERLDATTAGLCKGRIASLT	203
Qy	192	AMDRDKWERIKMAYEAIVGGIGOKATVDKXADVVRERYAQSEDFELKPIVFSDDG	248
Db	204	AMDRDNDRVQAAAYELIVDGKAE-FTADSSVALEAAYARGESDEFKATVAVPAGAE	262
Qy	249	-RVKDDTLTFNTRADMRQICELGLERYKDLNSSVPHPKNTQISG---MTQYNKEFP	304
Db	263	VRVEDGDAVIFMNFADRAARELSRAFEPAFNEF-----PRERAPQACVLMVTOAASIP	318
Qy	305	FPSLFPPTHTNVLAEWLASQGVTFQHCATETKTPHVTFFFNNGREVOFQDEERCWVSP	364
Db	319	APCAFPPEPLTNVLGVLAKHGKTLQRIATEKTAHVHTFFFSGGREPEYEGEERILPSP	378

QY 365 KEVATYDLKPEMNAAGVAEKMWQIESGRHPLVMCFAPPDVMVGHGTGKFEPAVKACQATD 424  
Db 379 K-VATYDLQPEMNAAGVAEKMWQIESGRHPLVMCFAPPDVMVGHGTGKFEPAVKACQATD 437  
QY 425 EAIGKLFACQTYNYVLMVTSRDNAGKEM-IAPDGEHTAHTCNLPFTCSSTFFPKST 483  
Db 438 TCMGRIVEALDKVGGGALITADHGNVEQMEDESTGQAHTAHTCEPVPF-----VYVGKRR 492  
QY 484 PPTGDDGKERARALRDVAPTIVLQMLGVLPPPPMDG 518  
Db 493 LSTREGG-----VLADVAPTIVLQMLGVLPPPPMDG 522

## RESULT 2

US-09-328-352-5423  
; Sequence 5423, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09-03PA  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 5423  
; LENGTH: 521  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-5423

Query Match 35.8%; Score 998.5; DB 4; Length 521;  
Best Local Similarity 42.2%; Pred. No. 1.8e-102;  
Matches 223; Conservative 86; Mismatches 171; Indels 49; Gaps 13;

QY 13 LVVIDGWSLDEQHGNAIAKAKTPIM-----DKLCSGNQKLEAHLVGLPGLMG 64  
Db 19 LVIMDGVGHREAIEDNAFAAKTPNLTAMKAKHPNSLISG-----GEDVGLPDGQMG 71  
QY 65 NSEVGHNLICAGRIYQDVRINLAVQREFTNPQIVASAEAKKSGRLHLGLVSDG 124  
Db 72 NSEVGHNLICAGRIYQDTRITKIDRTGAFHEHVLDAVEKAKAAGAVHIMGLLSG 131  
QY 125 GVHSHIDHFLALIR-AFKOLQVPKPIHFADGRDTSPTSGAGYLEBOLLQFIASEKY---- 180  
Db 132 GVHSHEDHIVAMCEALAK--RGAKVYLHAFLDGRDTPPRSAPSLKIDALEA--KYPNQ 187  
QY 181 GELATITGRYAMDRDKRWERIKMAYEALVGGIGOKATYDKAVDVVRYERYAQSEDEFK 240  
Db 188 GRIATMIGRIYAFMDRNRDRVEQAYRLITEGEAVR-TANTAVEGLELAYAANENDEFYK 246  
QY 241 PIVFSDGVRKDDDTLIFPNYRADRMROICECL-----GLERYKDLNLSVPHPKNIQIS 294  
Db 247 ATRIGEIAKQVQDSVFNFRADRAREITRAFVEKDFAGFERKVVQNLS-----KVV 299  
QY 295 GMTQYKNEPFPPLSPVTHVTLVLAELASQGVTFHCAETEKYPHVTFFNGRGVQFQ 354  
Db 300 METRYOASIDAPVAYMPEELKSLGSLYLSLKTQLRIAEKIAHTVTFPFGSGRDEY 359  
QY 355 DEERCMPSPKEVATYDLKPEMNAAGVAEKMWQIESGRHPLVMCFAPPDVMVGHGTGKFE 414  
Db 360 GKRILIPSP-NVATYDLKPEMSAVEVTDLVKATNSGEYDILLVNYANGDMVGHGTGVD 418  
QY 415 PAVKACQATDEAIGKIFEACQTYNYVLMVTSRDNAGKEM-IAPDGEHTAHTCNLPFTC 473  
Db 419 AAVKAVEAVDTCLGRVYEAAMAKKGHMLITADHGNVEQMQDYESGVHTQHTTELVPF-- 476  
QY 474 SKTFFVKSTPTGDDGKERARALRDVAPTIVLQMLGVLPPPPMDGVPPL 522  
Db 477 ----IYVGPTQATIAEGG-----VLADVAPTIVLQMLGVLPPPAEMOGRNLI 517

## RESULT 3

US-09-134-001C-5444  
; Sequence 5444, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
; FILE REFERENCE: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09/134,001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 5444  
; LENGTH: 517  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-5444

Query Match 35.6%; Score 992; DB 4; Length 517;  
Best Local Similarity 39.2%; Pred. No. 9.5e-102;  
Matches 205; Conservative 94; Mismatches 196; Indels 28; Gaps 8;

QY 8 QOKVCLVWIDGWSLDEQHGNAIAKAKTPIMDKLCSGNQK-----LEAHLVGLPGL 62  
Db 15 KQPTALILDLGFANRESEHGNVAKQAKPNFDY----YKYPPTQIEASGLDVLGPEG 70  
QY 63 MENSEVGHNLICAGRIYQDVRINLAVQREFTNPQIVASAEAKKSGRLHLGLVLS 122  
Db 71 MENSEVGHNLICAGRIYQSLTRINKSIDGFEFFDNTLVNTVKKVKNDSALHVFGLLS 130  
QY 123 DGVHSHIDHFLALIRAFKOLQVPKPIHFADGRDTSPTSGAGYLEBOLLQFIASEKYGE 182  
Db 131 DGVHSHYKHLFALELAKKQIDKVVYHAFLDGRVDQKSAKYTEEDFKELGVGQ 190  
QY 183 LATITGRYAMDRDKRWERIKMAYEALVGGIGOKATYDKAVDVVRYERYAQSEDEFKPI 242  
Db 191 FASVSGRYAMDRDKRWDRERAYNAIRNFEGPTTSAKA--GVEANYKNDVTDEFVEPF 248  
QY 243 VF--SDDGRVKDDDTLIFPNYRADRMROICECLGLERYKDLNLSVPHPKNIQISGTYN 300  
Db 249 IVEGONDG--VNDGDVAFYFNFRPDRAAQLSEIFTNKAFDGF--KVEQVDNLFYATFTKN 305  
QY 301 KEFPFSPFPPTHTNVLAEWLASQGVTFHCAETEKYPHVTFFNGRGVQFODERCM 360  
Db 306 DNVDATIEVPEKVDLNTTIGEVAQDNGLKQLRIAEKYPHVTFFNGRGVQFODERCM 365  
QY 361 VPSPEVATYDLKPEMNAAGVAEKMWQIESGRHPLVMCFAPPDVMVGHGTGKFEPAVKAC 420  
Db 366 IDSPK-VATYDLKPEMSAVEVTDLVKATNSGEYDILLVNYANGDMVGHGTGVD 424  
QY 421 QATDEAIGKIFEACQTYNYVLMVTSRDNAGKEM-IAPDGEHTAHTCNLPFTCSSTFFV 480  
Db 425 EAVDECLGEVDDKIIMDGHAITADHGNSDQVLTDDQPMPTHTTNPVPIVTVKEGVT 484  
QY 481 KSTPTGDDGKERARALRDVAPTIVLQMLGVLPPPPMDGVPPL 523  
Db 485 RETGRIG-----DLAPTLLDLNVKQPSMTGESLIK 516

## RESULT 4

US-08-975-762-35  
; Sequence 35, Application US/08975762  
; Patent No. 6207169  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Houghton, Raymond  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND  
; NUMBER OF SEQUENCES: 73  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/975,762  
FILING DATE: 21-MAR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: MAKI, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.439  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-622-4900  
TELEFAX: 206-682-6031  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 161 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE: Ehrlichia  
US-08-975-762-35

Query Match 12.0%; Score 333; DB 3; Length 161;  
Best Local Similarity 45.3%; Pred. No. 6.9e-29;  
Matches 72; Conservative 22; Mismatches 61; Indels 4; Gaps 3;  
QY 49 LEAGHLVGLPEGLMGNSVGHNLNIGAGRVYODIVRINLAVORNEFTVNPQIVASAERA 108  
DB 7 LSASGTDVGLPSGQFGNSVGHISGCGRIVLQDLRLINLEI--NEVHKPKLLDFVRDI 64  
QY 109 KKGSRHLHLGLVSDGGVSHDHLFALIRAFKOLQVPKVFIIHFFADGRDTSPTSGAGYL 168  
DB 65 QAKGGVCHMIGLLSDGGVSHLQAHMETIIEVITGFGI-KVFIHVILDRDVPVPSAEKYI 123  
QY 169 EQLLOFTASEKYELATITGRYYAMDRDKWERIKMAYE 207  
DB 124 GMLNAKI-EHLNAEIATVAGRIYAMDRDRLDRCTKAYD 161

RESULT 5  
US-08-921-324-35  
Sequence 35, Application US/08821324  
Patent No. 6231869  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Houghton, Raymond L.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND  
THERAPY  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/821,324  
FILING DATE: 21-MAR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: MAKI, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.439  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-622-4900  
TELEFAX: 206-682-6031  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 161 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE: Ehrlichia  
US-08-821-324-35

Query Match 12.0%; Score 333; DB 3; Length 161;  
Best Local Similarity 45.3%; Pred. No. 6.9e-29;  
Matches 72; Conservative 22; Mismatches 61; Indels 4; Gaps 3;  
QY 49 LEAGHLVGLPEGLMGNSVGHNLNIGAGRVYODIVRINLAVORNEFTVNPQIVASAERA 108  
DB 7 LSASGTDVGLPSGQFGNSVGHISGCGRIVLQDLRLINLEI--NEVHKPKLLDFVRDI 64  
QY 109 KKGSRHLHLGLVSDGGVSHDHLFALIRAFKOLQVPKVFIIHFFADGRDTSPTSGAGYL 168  
DB 65 QAKGGVCHMIGLLSDGGVSHLQAHMETIIEVITGFGI-KVFIHVILDRDVPVPSAEKYI 123  
QY 169 EQLLOFTASEKYELATITGRYYAMDRDKWERIKMAYE 207  
DB 124 GMLNAKI-EHLNAEIATVAGRIYAMDRDRLDRCTKAYD 161

RESULT 6  
US-09-295-028-35  
Sequence 35, Application US/09295028  
Patent No. 6277381  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Houghton, Raymond L.  
APPLICANT: McNeill, Patricia D.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS  
AND TREATMENT OF EHRlichia INFECTION  
FILE REFERENCE: 210121.439C4  
CURRENT APPLICATION NUMBER: US/09/295,028  
CURRENT FILING DATE: 1999-04-20  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 35  
LENGTH: 161  
TYPE: PRP  
ORGANISM: Ehrlichia sp.  
US-09-295-028-35

Query Match 12.0%; Score 333; DB 3; Length 161;  
Best Local Similarity 45.3%; Pred. No. 6.9e-29;  
Matches 72; Conservative 22; Mismatches 61; Indels 4; Gaps 3;  
QY 49 LEAGHLVGLPEGLMGNSVGHNLNIGAGRVYODIVRINLAVORNEFTVNPQIVASAERA 108  
DB 7 LSASGTDVGLPSGQFGNSVGHISGCGRIVLQDLRLINLEI--NEVHKPKLLDFVRDI 64  
QY 109 KKGSRHLHLGLVSDGGVSHDHLFALIRAFKOLQVPKVFIIHFFADGRDTSPTSGAGYL 168  
DB 65 QAKGGVCHMIGLLSDGGVSHLQAHMETIIEVITGFGI-KVFIHVILDRDVPVPSAEKYI 123  
QY 169 EQLLOFTASEKYELATITGRYYAMDRDKWERIKMAYE 207

; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

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: GENERAL INFORMATION:
: APPLICANT: Emerson, Charles P
: APPLICANT: Dhoot, Gurtej K
: TITLE OF INVENTION: IDENTIFICATION AND CLONING OF A NEW SUBFAMILY OF
: TITLE OF INVENTION: SULFATASES AND FUNCTIONAL EMBRYONIC TECHNIQUES FOR
: TITLE OF INVENTION: CHARACTERIZATION OF SUCH PROTEINS
: FILE REFERENCE: PENN-0733
: CURRENT APPLICATION NUMBER: US/09/668,673B
: CURRENT FILING DATE: 2000-09-22
: PRIOR APPLICATION NUMBER: 60/155,738
: PRIOR FILING DATE: 1999-09-23

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; APPLICANT: Marc J. Rubenfield et al  
 ; TITLE OF INVENTION: NUCLEIC ACID ANALYSIS  
 ; TITLE OF INVENTION: AERUGINOSA FOR IDENTIFICATION







